

c4 100. (Amended) An isolated polynucleotide having a sequence comprising at least twenty consecutive nucleotide residues of a portion of a strand of SEQ ID NO: 1, wherein the portion includes a residue selected from the group consisting of residues 1 to 423, residues 871 to 4343, residues 4365 to 4419, residues 4451 to 4473, residues 4514 to 6917, residues 6939 to 7125, residues 7148 to 7633, and residues 7806 to 8520 of SEQ ID NO: 1.

101. (Amended) The polynucleotide of claim 100, wherein the sequence comprises at least fifty consecutive residues of the portion of the strand of SEQ ID NO: 1.

102. (Amended) The polynucleotide of claim 100, wherein the sequence comprises at least one hundred consecutive residues of the portion of the strand of SEQ ID NO: 1.

---

c5 112. (Amended) The polynucleotide of claim 111, wherein the detectably-labeled polynucleotide is selected from the group consisting of a polynucleotide linked to a protein of a protein-ligand pair, a polynucleotide linked to a ligand of a protein-ligand pair, a biotinylated polynucleotide, a polynucleotide linked to an enzyme, and a radio-labeled polynucleotide.

113. (Amended) The polynucleotide of claim 112, wherein the polynucleotide is a polynucleotide immobilized on the surface of a gene chip.

---

c6 123. (Amended) An isolated polynucleotide having a sequence that is substantially homologous with twenty consecutive nucleotide residues of a portion of at least one strand of SEQ ID NO: 1, wherein the portion is selected from the group consisting of residues 1 to 423, residues 871 to 4343, residues 4365 to 4419, residues 4451 to 4473, residues 4514 to 6917, residues 6939 to 7125, residues 7148 to 7633, and residues 7806 to 8520 of SEQ ID NO: 1.

---

c7 135. (Amended) The polynucleotide of claim 134, wherein the detectably-labeled polynucleotide is selected from the group consisting of a polynucleotide linked to a protein of a protein-ligand pair, a polynucleotide linked to a ligand of a protein-ligand pair, a